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SOIL CONSERVATION SERVICE
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H. H. Bennett, Chief



PUBLICATIONS ON WATER RESOURCES:
THEIR USE AND DEVELOPMENT IN THE WESTERN STATES
(Preliminary Edition)

COMPILED
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FOREWORD

This list was compiled to serve as a guide to available bulletins and other references dealing with the uses and development of water resources in the seventeen Western States included in the water facilities program administered under the provisions of the Water Facilities Act of August 28, 1937, Public No. 399, 75th Congress. It was prepared primarily for use by engineers and other technicians in the Soil Conservation Service, in other bureaus in the U. S. Department of Agriculture, and by other Federal and State agencies engaged in the water facilities program.

This list does not purport to be all-inclusive. Books and articles in periodicals and technical journals were not included as it was the intention to confine the listings to bulletins available on request, to items which can be located in most depository or principal agricultural libraries, and to State bulletins which are available either from State offices or in State libraries.

To assist those agricultural workers and readers who wish to obtain an understanding of water problems in the West, a limited number of references in this compilation have been designated by an asterisk. This arrangement was intended to single out the publications which should prove of particular value to those who have limited time.

Suggestions, comments and criticism are solicited by the author for use in the compilation of a more complete and up-to-date guide to material accessible either on request or in libraries in the Western States.

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LIST OF PUBLICATIONS ON WATER RESOURCES: THEIR USE AND DEVELOPMENT
IN THE WESTERN STATES

FEDERAL LAWS, REPORTS AND MISCELLANEOUS REFERENCES

LAWS:

- Abstract of Laws for Acquiring Titles to Water from the Missouri River and its Tributaries with the Legal Forms in Use. Office of Experiment Stations Bulletin No. 60. U. S. Department of Agriculture. 1899. 2/
- Acquirement of Water Rights in the Arkansas Valley in Colorado. Office of Experiment Stations Bulletin No. 140. U. S. Department of Agriculture. 1903. 2/
- Federal Reclamation Laws - Annotated. Bureau of Reclamation. U. S. Department of the Interior. July 1936. 700 pp. \$1.25 paper-covered, \$1.50 buckram-bound. Cumulative Supplement issued September 1939, 40¢. (Remittance should be made by check or money order to the Bureau of Reclamation, Washington, D. C.)
- Irrigation under the Provisions of the Carey Act. Office of the Secretary Circular No. 124. Bureau of Public Roads, U. S. Department of Agriculture. 1919. 14 pp. 2/
- * Outline of Water Law Doctrines in the Seventeen Western States (as of December 31, 1940). Prepared by the Division of Irrigation, Soil Conservation Service, U. S. Department of Agriculture, for use by agencies engaged in administration of the Water Facilities Program. 1941. 49 pp. mm.
- * Selected Problems in the Law of Water Rights in the West. Miscellaneous Publication No. 418. Soil Conservation Service, U. S. Department of Agriculture. (In press.) Prepared by the Division of Irrigation, Soil Conservation Service, U. S. Department of Agriculture, for use in administration of the Water Facilities Program.
- Summary of Irrigation-District Statutes of Western States. Miscellaneous Publication No. 103. Bureau of Public Roads, U. S. Department of Agriculture. January 1931. 127 pp. 2/
- Water Facilities Act of August 28, 1937. Public No. 399, 75th Congress. An act to promote conservation in the arid and semiarid areas of the United States by aiding in the development of facilities for water storage and utilization, and for other purposes.

REPORTS:

Development of the Rivers of the United States. House Document No. 395, 73d Congress, 2d Session. Message from the President of the United States, transmitting preliminary report on comprehensive plan for improvement and development of rivers of the United States, with view toward giving Congress information for the guidance of legislation which will provide for maximum amount of flood control navigation, irrigation and development of hydro-electric power. June 4, 1934. 423 pp. 80¢. 1/

Drainage Basin Problems and Programs. Water Resources Committee, National Resources Committee. December 1936. 539 pp. \$1.50. 1/ Report on efforts of Federal, State, and local agencies to formulate a national water plan. The chief water problems in 118 drainage basins are discussed and detailed project lists are proposed.

Drainage Basin Problems and Programs, 1937. Water Resources Committee, National Resources Committee. February 1938. 154 pp. 65¢. 1/ Revision and extension of the initial report of December 1936. Contains specific project lists and recommendations on national water policies.

Drainage Policy and Projects. By special subcommittee of Water Resources Committee of the National Resources Committee, appointed in October 1935 to review scope and conflicts of Federal activity as related to land drainage, and to recommend a practicable means of developing coordinated programs of future work. February 1936. 26 pp. mm.

* National Irrigation Policy: Its Development and Significance. Senate Document No. 36, 76th Congress, 1st Session. 1939. 72 pp. 15¢. 1/ Consists of treatise on "What Federal Reclamation Means to the United States" and a discussion on "The National Irrigation Policy, Its Development and Its Significance."

* National Resources Board Report. December 1934. 455 pp. \$3.25. 1/ A report on national planning and public works in relation to natural resources, including land use and water and mineral resources, with findings and recommendations. (Part III, the "Report of the Water Planning Committee," which was issued in separate form, can be purchased at \$1.00. 1/)

Report of the Mississippi Valley Committee of the Public Works Administration. October 1934. 234 pp. \$1.50 buckram-bound. 1/ Report on the principles, policies, conditions and problems of the use and control of water in the Mississippi Drainage Area.

* Summary and Progress Report of the Wheeler-Case Program. Office of Land Use Coordination, U. S. Department of Agriculture. May 15, 1941. mm.

Summary of Irrigation-District Statutes of Western States. Miscellaneous Publication No. 103. Bureau of Public Roads, U. S. Department of Agriculture. January 1931. 127 pp. 2/

1/ From Supt. of Documents, U. S. Government Printing Office, Washington, D. C.

2/ Out of print - may be consulted in depository and principal agricultural libraries.

Survey of Land and Water Policies of the United States. Hearings before Special Committee on the Survey of Land and Water Policies of the United States. Pursuant to Senate Resolution No. 58, 74th Congress, 2d Session. August 1935.

MISCELLANEOUS REFERENCES:

- Activities of the Division of Irrigation. Irrigation Division, Soil Conservation Service, U. S. Department of Agriculture, Berkeley, California. April 15, 1941. 5 pp., plus 4 pp. reference list. mm.
- * Agricultural Engineering: A Selected Bibliography. Bureau of Agricultural Engineering, U. S. Department of Agriculture. 1937. 373 pp. mm. (Out of print.)
- * Headwaters: Control and Use. Report of the Upstream Engineering Conference held in Washington, D. C., on September 22 and 23, 1936. Soil Conservation Service and Forest Service, U. S. Department of Agriculture, with the cooperation of Rural Electrification Administration. April 1937. 261 pp. \$1.00. 1/
- * Irrigation: A Selected Bibliography. Bureau of Agricultural Engineering, U. S. Department of Agriculture. 1938. 631 pp. mm. (Out of print.) (The Irrigation Division of that Bureau was transferred to the Soil Conservation Service effective July 1, 1939.)
- Irrigation in the United States. Separate No. 1646, 1938 Yearbook of Agriculture. Bureau of Agricultural Engineering, U. S. Department of Agriculture. 1939. pp. 693-703.
- Land Available for Agriculture through Reclamation. Part IV, Supplementary Report of the Land Planning Committee to the National Resources Board. 1936. 51 pp. 35¢. 1/
- Land Reclamation Policies in the United States, Department Bulletin No. 1257. Bureau of Agricultural Economics, U. S. Department of Agriculture. August 23, 1924. 2/
- Little Waters: Their Use and Relations to the Land. Soil Conservation Service, U. S. Department of Agriculture, Resettlement Administration (now Farm Security Administration), and Rural Electrification Administration. April 1936. 82 pp. 30¢. 1/
- An Outline of the Water Facilities Program. Soil Conservation Service, U. S. Department of Agriculture. 1939. 24 pp.
- * Policies Governing the Ownership of Return Waters from Irrigation. Technical Bulletin No. 439. Bureau of Agricultural Engineering, U. S. Department of Agriculture. October 1934. 48 pp. 5¢. 1/
- 1/ From Supt. of Documents, U. S. Government Printing Office, Washington, D. C.
- 2/ Out of print - may be consulted in depository and principal agricultural libraries.

RESEARCH

- Annual Report of Irrigation and Drainage Investigations, 1904. Office of Experiment Stations Bulletin No. 158. U. S. Department of Agriculture. 1905. 2/
- The Barrier System for Control of Floods in Mountain Streams. Miscellaneous Publication No. 165. Bureau of Agricultural Engineering, U. S. Department of Agriculture. November 1933. 24 pp. 2/
- Boron in Irrigation Waters. Technical Bulletin No. 264. Bureau of Plant Industry, U. S. Department of Agriculture. November 1931. 66 pp. 2/
- The Capillary Distribution of Moisture in Soil Columns of Small Cross Section. Department Bulletin No. 1221. Bureau of Public Roads, U. S. Department of Agriculture. April 23, 1924. 2/
- Capillary Movement of Soil Moisture. Department Bulletin No. 835. Bureau of Public Roads, U. S. Department of Agriculture. August 6, 1920. 2/
- Commercial Irrigation Companies. Technical Bulletin No. 177. Bureau of Public Roads, U. S. Department of Agriculture. March 1930. 40 pp. 2/
- Current Wheels: Their Use in Lifting Water for Irrigation. Office of Experiment Stations Bulletin No. 146. U. S. Department of Agriculture. 1904. 2/
- Delivery of Irrigation Water. Technical Bulletin No. 47. Bureau of Public Roads, U. S. Department of Agriculture. February 1928. 48 pp. 2/
- Drainage of Irrigated Lands in the San Joaquin Valley, California. Office of Experiment Stations Bulletin No. 217. U. S. Department of Agriculture. 1909. 2/
- Evaporation from Free Water Surfaces. Technical Bulletin No. 271. Bureau of Agricultural Engineering, U. S. Department of Agriculture, in cooperation with Colorado Agricultural Experiment Station, Fort Collins, Colorado. December 1931. 96 pp. 25¢. 1/
- Evaporation from Irrigated Soils. Office of Experiment Stations Bulletin No. 248. U. S. Department of Agriculture. 1912. 2/
- Flow of Water in Concrete Pipe. Department Bulletin No. 852. Bureau of Public Roads, U. S. Department of Agriculture. October 28, 1920. 2/
- The Flow of Water in Flumes. Technical Bulletin No. 393. Bureau of Agricultural Engineering, U. S. Department of Agriculture. December 1933. 99 pp. 15¢. 1/

1/ From Supt. of Documents, U. S. Government Printing Office, Washington, D. C.

2/ Out of print - may be consulted in depository and principal agricultural libraries.

- Flow of Water in Irrigation and Similar Canals. Technical Bulletin No. 652. Bureau of Agricultural Engineering, U. S. Department of Agriculture. February 1939. 79 pp. 20¢.
- The Flow of Water in Riveted Steel and Analogous Pipes. Technical Bulletin No. 150. Bureau of Public Roads, U. S. Department of Agriculture. January 1930. 136 pp. 30¢. 1/
- The Flow of Water in Wood-Stave Pipe. Department Bulletin No. 376. Office of Public Roads and Rural Engineering, U. S. Department of Agriculture. November 25, 1916, revised October 1925. 2/
- Flow through Submerged Rectangular Orifices with Modified Contractions. Reprint from Volume 9, No. 4, Journal of Agricultural Research. U. S. Department of Agriculture. April 23, 1917. 2/
- Growth of Lemon Fruits in Relation to Moisture Content of the Soil. Technical Bulletin No. 640. Bureau of Plant Industry in cooperation with Bureau of Agricultural Engineering, U. S. Department of Agriculture. May 1939. 72 pp. 15¢. 1/
- Investigations of Irrigation Practice in Oregon. Office of Experiment Stations Circular No. 67. U. S. Department of Agriculture. 1906. 2/
- Irrigated Crop Rotations at the Huntley (Mont.) Field Station, 1912-35. Technical Bulletin No. 571. Bureau of Plant Industry, U. S. Department of Agriculture. June 1937. 38 pp. 10¢. 1/
- Irrigated Crop Rotations in Western Nebraska, 1912-34. Technical Bulletin No. 512. Bureau of Plant Industry, U. S. Department of Agriculture. May 1936. 36 pp. 5¢. 1/
- Irrigation Districts, Their Organization, Operation, and Financing. Technical Bulletin No. 254. Bureau of Public Roads, U. S. Department of Agriculture. June 1931. 94 pp. 2/
- Irrigation in Idaho. Office of Experiment Stations Bulletin No. 216. U. S. Department of Agriculture. 1909. 2/
- Irrigation in the United States. Office of Experiment Stations Bulletin No. 105. U. S. Department of Agriculture. 1901. 2/ (Reprinted from Report of the U. S. Industrial Commission on Agriculture and Agricultural Labor.)
- The Irrigation of Cotton. Technical Bulletin No. 72. Bureau of Public Roads, U. S. Department of Agriculture. May 1928. 38 pp. 10¢. 1/
- Measuring the Salinity of Irrigation Waters and of Soil Solutions with the Wheatstone Bridge. Circular No. 232. Bureau of Plant Industry, U. S. Department of Agriculture. July 1932. 16 pp. 2/

1/ From Supt. of Documents, U. S. Government Printing Office, Washington, D. C.

2/ Out of print - may be consulted in depository and principal agricultural libraries.

Mechanical Tests of Pumping Plants in California. Office of Experiment Stations Bulletin No. 181. U. S. Department of Agriculture. 1907. 2/

A New Irrigation Weir. Reprint from Volume 5, No. 24, Journal of Agricultural Research. U. S. Department of Agriculture. March 13, 1916. 2/

* Policies Governing the Ownership of Return Waters from Irrigation. Technical Bulletin No. 439. Bureau of Agricultural Engineering, U. S. Department of Agriculture. October 1934. 48 pp. 5¢. 1/

Principles of Snow Surveying as Applied to Forecasting Stream Flow. Reprint from Volume 51, No. 2, Journal of Agricultural Research. U. S. Department of Agriculture. July 15, 1935. 2/

Progress Report of Cooperative Irrigation Experiments at California University Farm, Davis, California, 1909-1912. Department Bulletin No. 10. Office of Experiment Stations. U. S. Department of Agriculture. October 13, 1913. 21 pp. 2/

Progress Report on Irrigation Experiments in Willamette Valley, Oregon. Office of Experiment Stations Circular No. 78. U. S. Department of Agriculture. 1908. 2/

Rate of Flow of Capillary Moisture. Technical Bulletin No. 579. Bureau of Agricultural Engineering, U. S. Department of Agriculture, in cooperation with Soils Department, Oregon Agricultural Experiment Station, Corvallis, Oregon. October 1937. 30 pp. 5¢. 1/

Report on Drainage Investigations, 1903. Office of Experiment Stations Bulletin No. 147. U. S. Department of Agriculture. 1904. 2/

Report on Irrigation Investigations for 1902. Office of Experiment Stations Bulletin No. 133. U. S. Department of Agriculture. 1903. 2/

Report on Irrigation Investigations in Humid Sections of the United States in 1903. Office of Experiment Stations Bulletin No. 148. U. S. Department of Agriculture. 1904. 2/

Report on the Drainage of the Eastern Parts of Cass, Traill, Grand Forks, Walsh, and Pembina Counties, North Dakota. Office of Experiment Stations Bulletin No. 189. U. S. Department of Agriculture. 1907. 2/

The Reservoir System of the Cache la Poudre Valley. Office of Experiment Stations Bulletin No. 92. U. S. Department of Agriculture. 1901. 2/

The Selection and Installation of Machinery for Small Pumping Plants. Office of Experiment Stations Circular No. 101. U. S. Department of Agriculture. 1910. 2/

Sewage Irrigation as Practiced in the Western States. Technical Bulletin No. 675. Bureau of Agricultural Engineering, U. S. Department of Agriculture. March 1939. 60 pp. 15¢. 1/

1/ From Supt. of Documents, U. S. Government Printing Office, Washington, D. C.

2/ Out of print - may be consulted in depository and principal agricultural libraries.

- Silt in the Colorado River and Its Relation to Irrigation. Technical Bulletin No. 67. Bureau of Public Roads, U. S. Department of Agriculture. February 1928. 95 pp. 2/
- The Silt Load of Texas Streams. Technical Bulletin No. 382. Bureau of Agricultural Engineering, U. S. Department of Agriculture. September 1933. 71 pp. 10¢. 1/
- Small Reservoirs in Wyoming, Montana, and South Dakota. Office of Experiment Stations Bulletin No. 179. U. S. Department of Agriculture. 1907. 2/
- Spillways for Reservoirs and Canals. Department Bulletin No. 831. Bureau of Public Roads, U. S. Department of Agriculture. August 25, 1920. 2/
- * Spreading Water for Storage Underground. Technical Bulletin No. 578. Bureau of Agricultural Engineering, U. S. Department of Agriculture. December 1937. 80 pp. 20¢. 1/
- The State Engineer and His Relation to Irrigation. Office of Experiment Stations Bulletin No. 168. U. S. Department of Agriculture. 1906. 2/
- Storage of Water on Cache la Poudre and Big Thompson Rivers. Office of Experiment Stations Bulletin No. 134. U. S. Department of Agriculture. 1903. 2/
- Structures Used in Draining Agricultural Land. Department Bulletin No. 1408. Bureau of Public Roads, U. S. Department of Agriculture. June 1926. 32 pp. 2/
- Studies of the Irrigation of Pear Orchards on Heavy Soil near Medford, Oregon. Technical Bulletin No. 432. Bureau of Agricultural Engineering and Bureau of Plant Industry, U. S. Department of Agriculture, with the cooperation of the Oregon Agricultural Experiment Station. August 1934. 34 pp.
- Studies on Capacities of Soils for Irrigation Water, and on a New Method of Determining Volume Weight. Reprinted from Volume 13, No. 1, Journal of Agricultural Research. U. S. Department of Agriculture. April 1, 1918. 2/
- Tests of Deep-Well Turbine Pumps. Reprint from Volume 31, No. 3, Journal of Agricultural Research. U. S. Department of Agriculture. August 1, 1925. 2/
- Tests of Spray Irrigation Equipment. Circular No. 195. Bureau of Agricultural Engineering, U. S. Department of Agriculture. November 1931. 30 pp. 10¢. 1/
- The Use of Concrete Pipe in Irrigation. Department Bulletin No. 906. Bureau of Public Roads, U. S. Department of Agriculture. March 23, 1921. 2/
- Use of Soil-Moisture and Fruit-Growth Records for Checking Irrigation Practices in Citrus Orchards. Circular No. 426. Bureau of Agricultural Engineering with the cooperation of the Bureau of Plant Industry, U. S. Department of Agriculture. May 1937. 24 pp. 2/

1/ From Supt. of Documents, U. S. Government Printing Office, Washington, D. C.

2/ Out of print -- may be consulted in depository and principal agricultural libraries.

The Use of Water in Irrigation: Report of Investigations Made in 1899. Office of Experiment Stations Bulletin No. 86. U. S. Department of Agriculture. 1900. 2/

Water Rights on Interstate Streams: The Platte River and Tributaries - Results of Investigation. Reprint pp. 9-95. from Office of Experiment Stations Bulletin No. 157. U. S. Department of Agriculture. 1905. 2/

Water Rights on the Missouri River and Its Tributaries. Office of Experiment Stations Bulletin No. 58. U. S. Department of Agriculture. 1899. 2/

Water-Right Problems of Bear River. Office of Experiment Stations Bulletin No. 70. U. S. Department of Agriculture. 1899. 2/

The Work of the Office of Experiment Stations in Irrigation and Drainage. Office of Experiment Stations Circular No. 63. U. S. Department of Agriculture. 1905. 2/

IRRIGATION PRACTICES

The Border Method of Irrigation. Farmers' Bulletin No. 1243. Bureau of Public Roads, U. S. Department of Agriculture. February 1922. 5¢. 1/

Construction and Use of Farm Weirs. Farmers' Bulletin No. 813. Office of Public Roads and Rural Engineering, U. S. Department of Agriculture. June 1917. 2/ (Superseded in 1932 by Farmers' Bulletin No. 1683, Measuring Water in Irrigation Channels.)

The Corrugation Method of Irrigation. Farmers' Bulletin No. 1348. Bureau of Public Roads, U. S. Department of Agriculture. August 1923. 5¢. 1/

The Drainage of Irrigated Farms. Farmers' Bulletin No. 805. Office of Public Roads and Rural Engineering, U. S. Department of Agriculture. June 1917, last revision (by Bureau of Agricultural Engineering) December 1937. 32 pp.

Farm Drainage. Farmers' Bulletin No. 1606. Bureau of Public Roads, U. S. Department of Agriculture. October 1929. 24 pp.

Farm Reservoirs. Farmers' Bulletin No. 828. Office of Public Roads and Rural Engineering, U. S. Department of Agriculture. July 1917. 2/ (Superseded in 1933 by Farmers' Bulletin No. 1703, Reservoirs for Farm Use.)

Farmers' Irrigation Guide. Conservation Bulletin No. 2. Bureau of Reclamation, U. S. Department of the Interior. 1939. 40 pp.

The Farmers' Short-Box Measuring Flume. Department Bulletin No. 1110. Bureau of Public Roads, U. S. Department of Agriculture. October 1922. 2/

1/ From Supt. of Documents, U. S. Government Printing Office, Washington, D. C.

2/ Out of print - may be consulted in depository and principal agricultural libraries.

IRRIGATION PRACTICES (Continued)

- Farmstead Water Supply. Farmers' Bulletin No. 1448. Bureau of Public Roads, U. S. Department of Agriculture. August 1925, slightly revised June 1933. 5¢. 1/
- Gate Structures for Irrigation Canals. Department Bulletin No. 115. Office of Experiment Stations, U. S. Department of Agriculture. 1914. 2/
- Irrigated Crop Rotations at the Huntley (Mont.) Field Station, 1912-35. Technical Bulletin No. 571. Bureau of Plant Industry, U. S. Department of Agriculture. June 1937. 38 pp. 10¢. 1/
- Irrigated Crop Rotations in Western Nebraska, 1912-34. Technical Bulletin No. 512. Bureau of Plant Industry, U. S. Department of Agriculture. May 1936. 36 pp.
- The Irrigation of Cotton. Technical Bulletin No. 72. Bureau of Public Roads, U. S. Department of Agriculture. May 1928. 38 pp. 10¢. 1/
- Irrigation of Grain. Farmers' Bulletin No. 863. Office of Public Roads and Rural Engineering, U. S. Department of Agriculture. August 1917. 2/
(Superseded in 1928 by Farmers' Bulletin No. 1556, Irrigation of Small Grain.)
- Irrigation of Small Grain. Farmers' Bulletin No. 1556. Bureau of Public Roads, U. S. Department of Agriculture. June 1928, last revision May 1940 by the Soil Conservation Service. 14 pp. (Replaces Farmers' Bulletin No. 863, Irrigation of Grain.)
- Irrigation Practices in Growing Alfalfa. Farmers' Bulletin No. 1630. Bureau of Public Roads, U. S. Department of Agriculture. June 1930, revised by the Soil Conservation Service November 1940. 27 pp.
- Irrigation Practice in Rice Growing. Farmers' Bulletin No. 673. Office of Experiment Stations, U. S. Department of Agriculture. June 23, 1915. 2/
- Measuring Water in Irrigation Channels. Farmers' Bulletin No. 1683. Bureau of Agricultural Engineering, U. S. Department of Agriculture. January 1932. 18 pp.
- Orchard Irrigation. Farmers' Bulletin No. 1518. Bureau of Public Roads, U. S. Department of Agriculture. February 1927, slightly revised in June 1940 by the Soil Conservation Service. 28 pp.
- Practical Information for Beginners in Irrigation. Farmers' Bulletin No. 864. Office of Public Roads and Rural Engineering, U. S. Department of Agriculture. September 1917. 2/ (The Irrigation Division of the Soil Conservation Service is to replace this bulletin with a new bulletin of wider scope.)

1/ From Supt. of Documents, U. S. Government Printing Office, Washington, D. C.

2/ Out of print - may be consulted in depository and principal agricultural libraries.

IRRIGATION PRACTICES (Continued) - 10 -

Pumping from Wells for Irrigation. Farmers' Bulletin No. 1404. Bureau of Public Roads, U. S. Department of Agriculture. May 1924. 2/ (Replaced in 1940 by Farmers' Bulletin No. 1846, Supplemental Irrigation, and Farmers' Bulletin No. 1857, Small Irrigation Pumping Plants.)

Putting Down and Developing Wells for Irrigation. Circular No. 546. Soil Conservation Service, U. S. Department of Agriculture. February 1940, slightly revised March 1941. 86 pp.

Reservoirs for Farm Use. Farmers' Bulletin No. 1703. Bureau of Agricultural Engineering, U. S. Department of Agriculture, with cooperation of Oregon Agricultural Experiment Station. June 1933. 17 pp. 5¢ 1/ (Replaced in 1940 by Farmers' Bulletin No. 1859, Stock-Water Developments: Wells, Springs, and Ponds.)

The Selection and Installation of Machinery for Small Pumping Plants. Office of Experiment Stations Circular No. 101. U. S. Department of Agriculture. 1910. 2/

* Small Irrigation Pumping Plants. Farmers' Bulletin No. 1857. Soil Conservation Service, U. S. Department of Agriculture. December 1940. 30 pp.

Spray Irrigation. Department Bulletin No. 495. Office of Public Roads and Rural Engineering, U. S. Department of Agriculture. February 14, 1917. 2/ (Replaced in 1940 by Farmers' Bulletin No. 1846, Supplemental Irrigation.)

* Stock-Water Developments: Wells, Springs, and Ponds. Farmers' Bulletin No. 1859. Soil Conservation Service, U. S. Department of Agriculture. July 1940. 70 pp. 10¢. 1/

* Supplemental Irrigation. Farmers' Bulletin No. 1846. Soil Conservation Service, U. S. Department of Agriculture. October 1940. 73 pp.

Tests of Spray Irrigation Equipment. Circular No. 195. Bureau of Agricultural Engineering, U. S. Department of Agriculture. November 1931. 30 pp. 10¢. 1/

The Use of Concrete Pipe in Irrigation. Department Bulletin No. 906. Bureau of Public Roads, U. S. Department of Agriculture. March 23, 1921. 2/

Use of Irrigation Water on Farm Crops. Farmers' Bulletin No. 10. Publication No. 509. Department of Agriculture, Dominion of Canada, Ottawa, Canada. December 1939. 48 pp.

Use of Soil-Moisture and Fruit-Growth Records for Checking Irrigation Practices in Citrus Orchards. Circular No. 426. Bureau of Agricultural Engineering with the cooperation of the Bureau of Plant Industry, U. S. Department of Agriculture. May 1937. 24 pp. 2/

1/ From Supt. of Documents, U. S. Government Printing Office, Washington, D. C.

2/ Out of print - may be consulted in depository and principal agricultural libraries.

The Use of Windmills in Irrigation in the Semiarid West. Farmers' Bulletin No. 866. Office of Public Roads and Rural Engineering, U. S. Department of Agriculture. October 1917. 2/

Wireworms and Their Control on Irrigated Lands. Farmers' Bulletin No. 1866. Bureau of Entomology and Plant Quarantine, U. S. Department of Agriculture. March 1941. 21 pp.

Wood Pipe for Conveying Water for Irrigation. Department Bulletin No. 155. Office of Experiment Stations, U. S. Department of Agriculture. 1914. 2/

2/ Out of print - may be consulted in depository and principal agricultural libraries.

WESTERN STATES

Note: The bulletins in this group pertain to either specific areas in the Western States, or to all of the Western States.

Annual Report of Irrigation and Drainage Investigations, 1904. Office of Experiment Stations Bulletin No. 158. U. S. Department of Agriculture. 1905. 2/

The Barrier System for Control of Floods in Mountain Streams. Miscellaneous Publication No. 165. Bureau of Agricultural Engineering, U. S. Department of Agriculture. November 1933. 24 pp. 2/

Boron in Irrigation Waters. Technical Bulletin No. 264. Bureau of Plant Industry, U. S. Department of Agriculture. November 1931. 66 pp. 2/

Commercial Irrigation Companies. Technical Bulletin No. 177. Bureau of Public Roads, U. S. Department of Agriculture. March 1930. 40 pp. 2/

Delivery of Irrigation Water. Technical Bulletin No. 47. Bureau of Public Roads, U. S. Department of Agriculture. February 1928. 48 pp. 2/

Delivery of Water to Irrigators. Office of Experiment Stations Bulletin No. 229. U. S. Department of Agriculture. 1910. 2/

The Discharge of Drains Serving Irrigated Lands. Division of Irrigation, Soil Conservation Service, U. S. Department of Agriculture, Berkeley, California. 1933. mm.

Distribution of Water in the Soil in Furrow Irrigation. Office of Experiment Stations Bulletin No. 203. U. S. Department of Agriculture. 1908. 2/

Erosion Control on Steep Irrigated Slopes. Division of Irrigation, Soil Conservation Service, U. S. Department of Agriculture, Berkeley, California. Prepared in June 1938. 9 pp. mm.

Evaporation Losses in Irrigation and Water Requirements of Crops. Office of Experiment Stations Bulletin No. 177. U. S. Department of Agriculture. 1907. 2/

Field Records Relating to Subsoil Water. Bureau of Soils Bulletin No. 93. U. S. Department of Agriculture. 1913. 2/

Financial Settlements of Defaulting Irrigation Enterprises. Circular No. 72. Bureau of Public Roads, U. S. Department of Agriculture. July 1929. 46 pp. 10¢. 1/

Flow of Water in Irrigation and Similar Canals. Technical Bulletin No. 652. Bureau of Agricultural Engineering, U. S. Department of Agriculture. February 1939. 79 pp.

1/From Supt. of Documents, U. S. Government Printing Office, Washington, D. C.

2/Out of Print - may be consulted in depository and principal agricultural libraries.

- If the Well Runs Dry: A New Southern High Plains Farm Enterprise and Its Effect on the Ground-Water Supply. Bureau of Agricultural Economics, U. S. Department of Agriculture. December 1940. 8 pp.
- Irrigation District Operation and Finance. Department Bulletin No. 1177. Bureau of Public Roads, U. S. Department of Agriculture. September 22, 1923. 2/ (Superseded in 1931 by Technical Bulletin No. 254, Irrigation Districts, Their Organization, Operation, and Financing.)
- Irrigation Districts, Their Organization, Operation, and Financing. Technical Bulletin No. 254. Bureau of Public Roads, U. S. Department of Agriculture. June 1931. 94 pp.
- Irrigation in the United States. Office of Experiment Stations Bulletin No. 105. U. S. Department of Agriculture. 1901. 2/ (Reprinted from Report of the U. S. Industrial Commission on Agriculture and Agricultural Labor.)
- Irrigation in the United States. Separate No. 1646, 1938 Yearbook of Agriculture. Bureau of Agricultural Engineering, U. S. Department of Agriculture. 1939. pp. 693-703.
- Irrigation Problems in Citrus Orchards. Division of Irrigation, Soil Conservation Service, U. S. Department of Agriculture, Berkeley, California. 1939. mm. (Replaced in 1941 by Farmers' Bulletin No. 1876, Irrigation Problems in Citrus Orchards.)
- Irrigation Problems in Citrus Orchards. Farmers' Bulletin No. 1876. Soil Conservation Service, U. S. Department of Agriculture. April 1941. 33 pp. 15¢. 1/
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1/ From Supt. of Documents, U. S. Government Printing Office, Washington, D. C.

2/ Out of print - may be consulted in depository and principal agricultural libraries.

3/ The area plans were prepared solely for administrative purposes in those specific areas, and copies are not available for general distribution. However, these plans may be consulted in the Main Library, U. S. Department of Agriculture, Washington, D. C.; or in the libraries of the State land-grant colleges in which these areas are located.

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